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National Priority Chemicals Trends Report (2000-2004)

Section 4
Chemical Specific Trends Analyses for Priority Chemicals (2000−2004): 2,4,5 – Trichlorophenol (2,4,5−TCP)

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2,4,5 – Trichlorophenol (2,4,5−TCP)

Chemical Information:

CAS Number − 95−95−4

Alternate Names − Collunosol, Dowicide 2

General Uses − This chemical is used as a fungicide to destroy or prevent fungi from growing. It is also used as a herbicide and to make other pesticides.

Potential Hazards − If skin comes into contact with this chemical, it may burn. It can also irritate eyes, nose, pharynx, and lungs.

Summary Analysis:

- NATIONAL − In 2004, the quantity of 2,4,5−TCP decreased by 80 percent, compared to the 2003 quantity.
- MANAGEMENT − This decrease reflects a smaller volume of wastewater (containing 2,4,5−TCP) received from offsite sources for treatment.
- FACILITY − From 2000 to 2004, only one facility (SIC 2869−Industrial organic chemicals, nec), located in New Jersey, reported a PC quantity of 2,4,5−TCP. Almost all the 2,4,5−TCP was treated onsite by this facility.

National Trends:

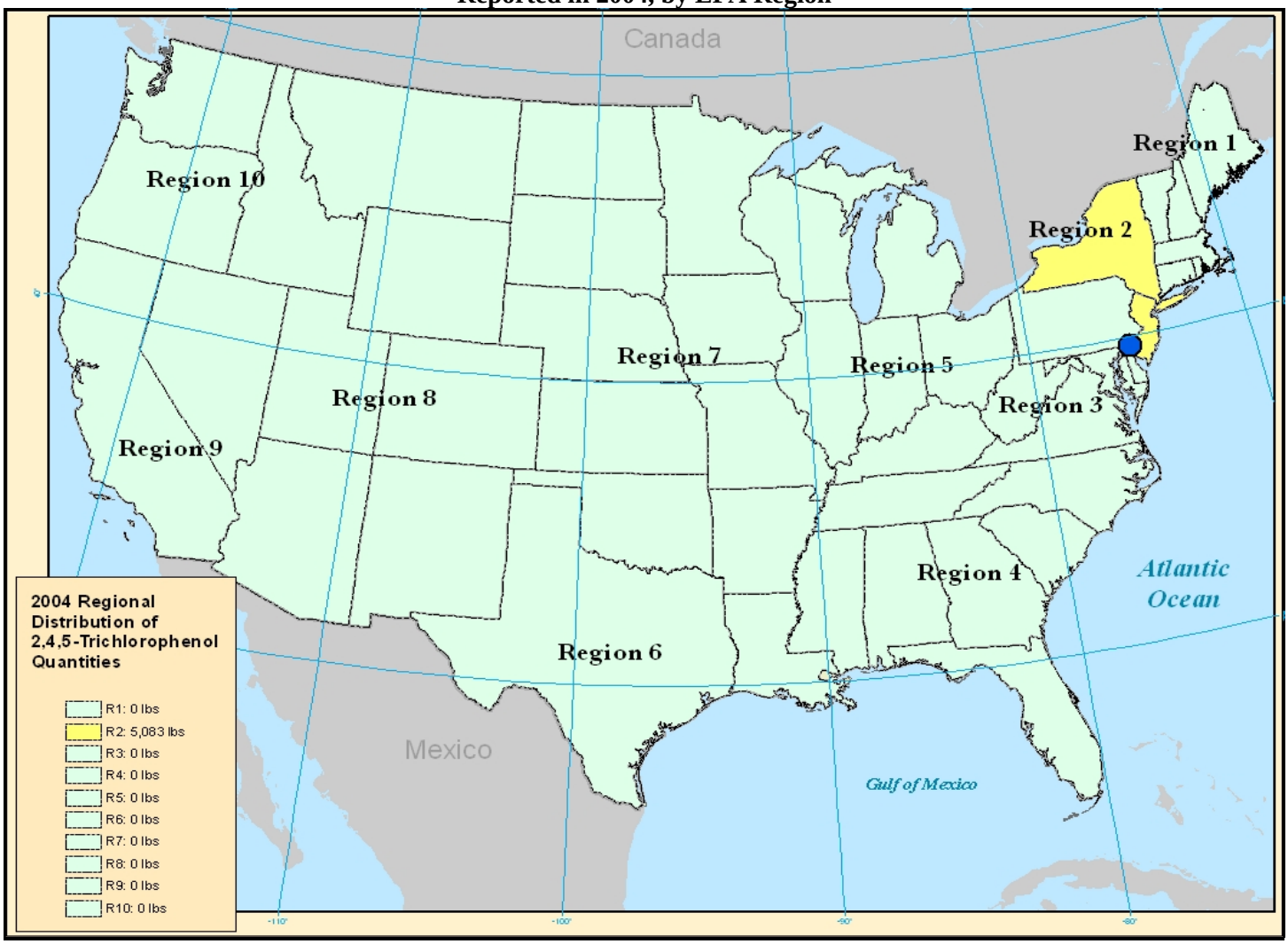
From 2000 to 2004, only one facility reported a PC quantity of 2,4,5−TCP (Exhibit 4.14). In 2004, the quantity decreased by 80 percent, compared to the 2003 quantity; this decrease reflects a smaller volume of wastewater (containing 2,4,5−TCP) received from offsite sources for treatment by this facility.

Exhibit 4.14. National Management Methods for 2,4,5–Trichlorophenol, 2000−2004

Management Method for 2.4.5−TCP and Number of Facilities	2000	2001	2002	2003	2004	Percent Change (2000−2004)	Management Method − Percent of Total Quantity of This PC (2004)
Number of Facilities	1	1	1	1	1	0.0%	-
Disposal Quantity (lbs.)	0	82	52	13	6	NA	0.1%
Energy Recovery Quantity (lbs.)	0	0	0	0	0	NA	0.0%
Total Treatment Quantity (lbs.)	32,443	20,575	17,861	22,844	5,077	−84.4%	99.9%
Total PC Quantity (lbs.)	32,443	20,657	17,913	22,857	5,083	−84.3%	100%
Total Recycled (lbs.)*	0	0	0	0	0	NA	-

*Note: Waste minimization is the emphasis of this Report. As such, we primarily focus on quantities of PCs that are managed via onsite/offsite disposal, treatment, or energy recovery because we believe these PC quantities offer the greatest opportunities for waste minimization. Because recycled quantities of PCs are already directed to their best uses, they are considered separate and distinct from the quantities of PCs not recycled. Throughout this section, the recycled quantity is presented to provide some perspective regarding the quantity of this PC already recycled compared to the quantities that are managed via disposal, treatment, and energy recovery and thus potentially available for waste minimization.

Exhibit 4.15. The 2004 Facility Reporting 2,4,5−Trichlorophenol and the Quantities of 2,4,5−Trichlorophenol Reported in 2004, by EPA Region



Virtually all the 2,4,5−TCP was treated onsite by this facility (Exhibit 4.16).

Exhibit 4.16. Management of 2,4,5 – Trichlorophenol, 2004

Total Quantity of 2,4,5−TCP (2004)	Percent of Total Quantity (2004)	Disposal (pounds)		Energy Recovery (pounds)		Treatment (pounds)		Recycling (pounds)	
		Onsite Disposal	Offsite Disposal	Onsite Energy Recovery	Offsite Energy Recovery	Onsite Treatment	Offsite Treatment	Onsite Recycling	Offsite Recycling
5,083	100.0%	6	0	0	0	5,050	27	0	0

EPA Regional Trends:

Only one facility, located in EPA Region 2, reported a PC quantity of 2,4,5−TCP for 2000−2004 (Exhibit 4.17).

Exhibit 4.17. Quantity of 2,4,5−Trichlorophenol Reported by EPA Region, 2000−2004

EPA Region	2000 (pounds)	2001 (pounds)	2002 (pounds)	2003 (pounds)	2004 (pounds)
2	32,443	20,657	17,913	22,857	5,083

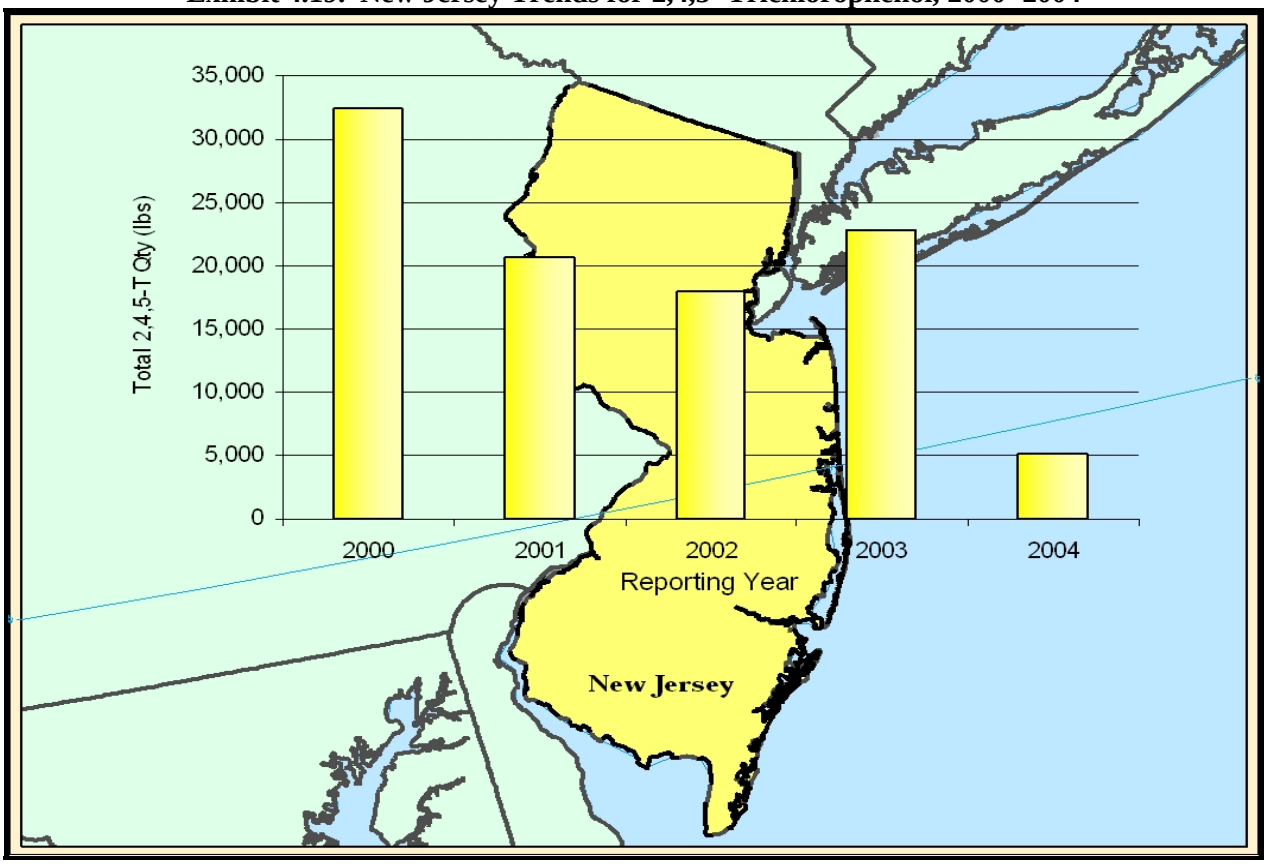
State Trends:

Exhibits 4.18 and 4.19 show the trend for the quantity of 2,4,5−TCP reported by the one facility, located in New Jersey, that reported this chemical between 2000 and 2004.

Exhibit 4.18. State−Level Information for 2,4,5–Trichlorophenol, 2000−2004

State	2000 (pounds)	2001 (pounds)	2002 (pounds)	2003 (pounds)	2004 (pounds)	Change in Quantity (2000−2004)	Percent Change in Quantity (2000−2004)	Percent of Total Quantity of This PC (2004)
NJ	32,443	20,657	17,913	22,857	5,083	−27,360	−84.3%	100.00%

Exhibit 4.19. New Jersey Trends for 2,4,5−Trichlorophenol, 2000−2004



Industry Sector (SIC) Trends:

Between 2000 and 2004, only one facility (SIC 2869−Industrial organic chemicals, nec) reported 2,4,5−TCP (Exhibit 4.20). This facility treated wastewaters containing 2,4,5−TCP from offsite sources.

Exhibit 4.20. Industry Sector −Level Information for 2,4,5−Trichlorophenol, 2000−2004

Primary SIC	SIC Description	Number of Facilities for This SIC Code	2000 (pounds)	2001 (pounds)	2002 (pounds)	2003 (pounds)	2004 (pounds)	Change in Quantity (2000−2004)	Percent Change in Quantity (2000−2004)	Percent of Total Quantity of This PC (2004)
2869	Industrial organic chemicals, nec	1	32,443	20,657	17,913	22,857	5,083	−27,360	−84.3%	100.00%